

## Subject Index of Volume 138

- Activated carbon**  
 Steam activation; BET surface area; Mesopores; Supercapacitor (Wu, F.-C. (138) 351)
- Activation**  
 SOFC; Ohmic; Concentration; Polarization; Performance fuel cell (Hernández-Pacheco, E. (138) 174)
- Air impurities**  
 PEM fuel cell; Cyclic voltammetry (Mohtadi, R. (138) 216)
- Al<sub>2</sub>O<sub>3</sub>**  
 LiCoVO<sub>4</sub>; Surface modification; Li-ion batteries. (Landschoot, N.V. (138) 262)
- Aluminum electrode**  
 Zinc; Aluminum-air battery (Tang, Y. (138) 313)
- Aluminum oxide**  
 Electrolytic capacitor; Anodization; Hydration; TEM analysis (Chang, J.-K. (138) 301)
- Aluminum-air battery**  
 Zinc; Aluminum electrode (Tang, Y. (138) 313)
- Amide**  
 Hydrogen storage; Solid-gas reaction; Magnesium; Lithium; Imide (Nakamori, Y. (138) 309)
- Anode-supported**  
 Intermediate temperature; Direct internal reforming; SOFC; Planar; Dynamic model (Aguilar, P. (138) 120)
- Anodization**  
 Electrolytic capacitor; Aluminum oxide; Hydration; TEM analysis (Chang, J.-K. (138) 301)
- Auto thermal reforming**  
 Hydrogen economy; Hydrogen production; Fuel processing; Fuel cell; Water recovery (Biesheuvel, P.M. (138) 156)
- Batteries**  
 NiMH; Equalizer (Hande, A. (138) 327)
- Battery behavior**  
 Lithium insertion; Comparison (Minakshi, M. (138) 319)
- Battery**  
 Supercapacitor; Combination; High-pulse power (Choi, S.H. (138) 360)
- Bend loss coefficients**  
 PEM fuel cell; Serpentine channels; Laminar flow; Computational fluid dynamics; Design correlations (Maharudrayya, S. (138) 1)
- BET surface area**  
 Activated carbon; Steam activation; Mesopores; Supercapacitor (Wu, F.-C. (138) 351)
- Binder**  
 Graphite anode; Solid electrolyte interface; Self-delithiation; Li-ion battery (Zhang, S.S. (138) 226)
- Biomass gasification**  
 Molten carbonate fuel cell (MCFC); Gas turbine; Power generation system (Morita, H. (138) 31)
- Bipolar plate**  
 Nitridation; Stainless steel; Ferrite; PEMFC (Wang, H. (138) 79)
- Bipolar plate**  
 Thermal nitridation; Ni-based alloy; Stainless steel; PEMFC; Corrosion (Wang, H. (138) 86)
- Carbon black support**  
 PEFC electrode; Graft polymerization; Monomer solution; Polymer electrolyte fuel cell; Tafel plots (Mizuhata, H. (138) 25)
- Carbon**  
 Nanotube; Lithium battery (Morris, R.S. (138) 277)
- Catalyst layer**  
 Fuel cell; Modeling; Particle size; Catalyst utilization; Polarization (Farhat, Z.N. (138) 68)
- Catalyst utilization**  
 Fuel cell; Catalyst layer; Modeling; Particle size; Polarization (Farhat, Z.N. (138) 68)
- Cathode structure**  
 PEMFC; Planar design; Free-breathing; Liquid water saturation (Hottingen, T. (138) 205)
- CFD**  
 PEM fuel cells; Fuel cell modeling; Reformate (Zhou, T. (138) 101)
- Coatings**  
 Solid oxide fuel cells; Interconnects; Electron microscopy; X-ray diffraction (Qu, W. (138) 162)
- Colloidal silica**  
 Nanocomposite polymer electrolyte; Poly(ethylene glycol) diacrylate; Lithium polymer batteries; Nanosize SiO<sub>2</sub> (Qiu, W.-I. (138) 245)
- Combination**  
 Battery; Supercapacitor; High-pulse power (Choi, S.H. (138) 360)
- Combustion CVD**  
 Solid oxide fuel cells; Nanostructured electrodes; Functionally graded materials (Liu, Y. (138) 194)
- Comparison**  
 Lithium insertion; Battery behavior (Minakshi, M. (138) 319)
- Composite materials**  
 Sulfur cathode; Rechargeable lithium batteries; Cycle performance; Material utilization efficiency (Wang, J. (138) 271)
- Compressive metallic seals**  
 Solid oxide fuel cells; Mica; Mechanical properties; Leakage rate; Stack testing (Bram, M. (138) 111)
- Computational fluid dynamics**  
 PEM fuel cell; Serpentine channels; Laminar flow; Bend loss coefficients; Design correlations (Maharudrayya, S. (138) 1)
- Concentration**  
 SOFC; Ohmic; Activation; Polarization; Performance fuel cell (Hernández-Pacheco, E. (138) 174)
- Corrosion**  
 Thermal nitridation; Ni-based alloy; Stainless steel; PEMFC; Bipolar plate (Wang, H. (138) 86)
- “Coup de fouet”**  
 Lead-acid batteries; Reactivation peak; State-of-charge; State-of-health; Grid corrosion (de Oliveira, C.P. (138) 294)
- Cyano group**  
 Ionic liquid; Lithium battery (Egashira, M. (138) 240)
- Cycle durability**  
 Ionic liquid; Lithium ion cell; Safety; Solid electrolyte interface (Sato, T. (138) 253)

- Cycle performance**  
 Sulfur cathode; Composite materials; Rechargeable lithium batteries;  
 Material utilization efficiency (Wang, J. (138) 271)
- Cyclic voltammetry**  
 Fuel cell; Pulse electrodeposition; Off time (Kim, H. (138) 14)
- Cyclic voltammetry**  
 PEM fuel cell; Air impurities (Mohtadi, R. (138) 216)
- Dehydration**  
 Polymer electrolyte fuel cell stack; Water management; Flooding (Eckl,  
 R. (138) 137)
- Design correlations**  
 PEM fuel cell; Serpentine channels; Laminar flow; Bend loss  
 coefficients; Computational fluid dynamics (Maharudrayya, S.  
 (138) 1)
- Direct internal reforming**  
 Anode-supported; Intermediate temperature; SOFC; Planar; Dynamic  
 model (Aguiar, P. (138) 120)
- Dopant**  
 Lithium rechargeable battery; LiCoO<sub>2</sub> cathode active material; Sol-gel  
 method; Magnesium; Zirconium (Kim, H.-S. (138) 232)
- Double-layer capacitor**  
 Non-aqueous solvent; Electrolyte; Phase diagram; Electrolytic conduc-  
 tivity; Electrochemical stability (Ding, M.S. (138) 340)
- Dynamic model**  
 Anode-supported; Intermediate temperature; Direct internal reforming;  
 SOFC; Planar (Aguiar, P. (138) 120)
- Dynamic model**  
 Fuel cell; PEM fuel cell; Electrochemical model (El-Sharkh, M.Y. (138)  
 199)
- Electrochemical impedance spectroscopy**  
 Thermal batteries; Li-based molten salt batteries (Singh, P. (138) 323)
- Electrochemical model**  
 Fuel cell; PEM fuel cell; Dynamic model (El-Sharkh, M.Y. (138) 199)
- Electrochemical stability**  
 Non-aqueous solvent; Electrolyte; Double-layer capacitor; Phase dia-  
 gram; Electrolytic conductivity (Ding, M.S. (138) 340)
- Electrochemical**  
 Warpage; Glassy seals; Leakage; Hydrogen (Li, W. (138) 145)
- Electrode flooding**  
 PEM fuel cells; Water management; Sequential exhausting (Knobbe,  
 M.W. (138) 94)
- Electrolyte**  
 Non-aqueous solvent; Double-layer capacitor; Phase diagram; Electro-  
 lytic conductivity; Electrochemical stability (Ding, M.S. (138) 340)
- Electrolytes**  
 Non-flammable; Lithium batteries (Dixon, B.G. (138) 274)
- Electrolytic capacitor**  
 Aluminum oxide; Anodization; Hydration; TEM analysis (Chang, J.-K.  
 (138) 301)
- Electrolytic conductivity**  
 Non-aqueous solvent; Electrolyte; Double-layer capacitor; Phase dia-  
 gram; Electrochemical stability (Ding, M.S. (138) 340)
- Electron microscopy**  
 Solid oxide fuel cells; Interconnects; Coatings; X-ray diffraction (Qu,  
 W. (138) 162)
- Equalizer**  
 NiMH; Batteries (Hande, A. (138) 327)
- Ethanol reforming**  
 Hydrogen production; Fuel cell (Comas, J. (138) 61)
- Ferrite**  
 Nitridation; Stainless steel; PEMFC; Bipolar plate (Wang, H. (138) 79)
- Flooding**  
 Polymer electrolyte fuel cell stack; Water management; Dehydration  
 (Eckl, R. (138) 137)
- Free-breathing**  
 PEMFC; Planar design; Cathode structure; Liquid water saturation  
 (Hottinen, T. (138) 205)
- Fuel cell modeling**  
 PEM fuel cells; Reformate; CFD (Zhou, T. (138) 101)
- Fuel cell**  
 Catalyst layer; Modeling; Particle size; Catalyst utilization; Polarization  
 (Farhat, Z.N. (138) 68)
- Fuel cell**  
 Ethanol reforming; Hydrogen production (Comas, J. (138) 61)
- Fuel cell**  
 Hydrogen economy; Hydrogen production; Fuel processing; Auto  
 thermal reforming; Water recovery (Biesheuvel, P.M. (138)  
 156)
- Fuel cell**  
 PEM fuel cell; Electrochemical model; Dynamic model (El-Sharkh,  
 M.Y. (138) 199)
- Fuel cell**  
 PEM; Micro-fuel cell (Li, J. (138) 211)
- Fuel cell**  
 PEMFC; Gas diffusion layer; Mass transfer (Jeng, K.T. (138) 41)
- Fuel cell**  
 Pulse electrodeposition; Off time; Cyclic voltammetry (Kim, H. (138)  
 14)
- Fuel processing**  
 Hydrogen economy; Hydrogen production; Fuel cell; Auto thermal  
 reforming; Water recovery (Biesheuvel, P.M. (138) 156)
- Fuel-cells**  
 Geometric design; Graphical user interface; Voxel-based sculpturing  
 (Smirnov, A.V. (138) 187)
- Functionally graded materials**  
 Solid oxide fuel cells; Combustion CVD; Nanostructured electrodes  
 (Liu, Y. (138) 194)
- Gas diffusion layer**  
 PEMFC; Fuel cell; Mass transfer (Jeng, K.T. (138) 41)
- Gas turbine**  
 Biomass gasification; Molten carbonate fuel cell (MCFC); Power  
 generation system (Morita, H. (138) 31)
- Geometric design**  
 Fuel-cells; Graphical user interface; Voxel-based sculpturing (Smirnov,  
 A.V. (138) 187)
- Glassy seals**  
 Warpage; Leakage; Electrochemical; Hydrogen (Li, W. (138) 145)
- Graft polymerization**  
 PEFC electrode; Carbon black support; Monomer solution; Polymer  
 electrolyte fuel cell; Tafel plots (Mizuhata, H. (138) 25)
- Graphical user interface**  
 Fuel-cells; Geometric design; Voxel-based sculpturing (Smirnov, A.V.  
 (138) 187)
- Graphite anode**  
 Binder; Solid electrolyte interface; Self-delithiation; Li-ion battery  
 (Zhang, S.S. (138) 226)
- Grid corrosion**  
 Lead-acid batteries; “Coup de fouet”; Reactivation peak; State-of-  
 charge; State-of-health (de Oliveira, C.P. (138) 294)
- High-pulse power**  
 Battery; Supercapacitor; Combination (Choi, S.H. (138) 360)
- Hydration**  
 Electrolytic capacitor; Aluminum oxide; Anodization; TEM analysis  
 (Chang, J.-K. (138) 301)
- Hydrogen economy**  
 Hydrogen production; Fuel processing; Fuel cell; Auto thermal reform-  
 ing; Water recovery (Biesheuvel, P.M. (138) 156)
- Hydrogen production**  
 Ethanol reforming; Fuel cell (Comas, J. (138) 61)

- Hydrogen production  
 Hydrogen economy; Fuel processing; Fuel cell; Auto thermal reforming; Water recovery (Biesheuvel, P.M. (138) 156)
- Hydrogen storage  
 Solid-gas reaction; Magnesium; Lithium; Amide; Imide (Nakamori, Y. (138) 309)
- Hydrogen  
 Warpage; Glassy seals; Leakage; Electrochemical (Li, W. (138) 145)
- Imide  
 Hydrogen storage; Solid-gas reaction; Magnesium; Lithium; Amide (Nakamori, Y. (138) 309)
- Interconnects  
 Solid oxide fuel cells; Coatings; Electron microscopy; X-ray diffraction (Qu, W. (138) 162)
- Intermediate temperature  
 Anode-supported; Direct internal reforming; SOFC; Planar; Dynamic model (Aguilar, P. (138) 120)
- Ionic liquid  
 Lithium battery; Cyano group (Egashira, M. (138) 240)
- Ionic liquid  
 Lithium ion cell; Safety; Cycle durability; Solid electrolyte interface (Sato, T. (138) 253)
- Laminar flow  
 PEM fuel cell; Serpentine channels; Bend loss coefficients; Computational fluid dynamics; Design correlations (Maharudrayya, S. (138) 1)
- Lead-acid batteries  
 "Coup de fouet"; Reactivation peak; State-of-charge; State-of-health; Grid corrosion (de Oliveira, C.P. (138) 294)
- Leakage rate  
 Solid oxide fuel cells; Compressive metallic seals; Mica; Mechanical properties; Stack testing (Bram, M. (138) 111)
- Leakage  
 Warpage; Glassy seals; Electrochemical; Hydrogen (Li, W. (138) 145)
- Li-based molten salt batteries  
 Thermal batteries; Electrochemical impedance spectroscopy (Singh, P. (138) 323)
- Li-ion batteries.  
 LiCoVO<sub>4</sub>; Surface modification; Al<sub>2</sub>O<sub>3</sub> (Landschoot, N.V. (138) 262)
- Li-ion battery  
 Binder; Graphite anode; Solid electrolyte interface; Self-delithiation (Zhang, S.S. (138) 226)
- Li-ion battery  
 Lithium cobalt oxide; Self-discharge (Choi, S.H. (138) 283)
- Li-ion  
 Military; LiNiO<sub>2</sub> positive; Low temperatures (Fan, J. (138) 288)
- LiCoO<sub>2</sub> cathode active material  
 Lithium rechargeable battery; Sol-gel method; Dopant; Magnesium; Zirconium (Kim, H.-S. (138) 232)
- LiCoVO<sub>4</sub>  
 Surface modification; Al<sub>2</sub>O<sub>3</sub>; Li-ion batteries. (Landschoot, N.V. (138) 262)
- LiNiO<sub>2</sub> positive  
 Li-ion; Military; Low temperatures (Fan, J. (138) 288)
- Liquid water saturation  
 PEMFC; Planar design; Free-breathing; Cathode structure (Hottinen, T. (138) 205)
- Lithium batteries  
 Non-flammable; Electrolytes (Dixon, B.G. (138) 274)
- Lithium battery  
 Ionic liquid; Cyano group (Egashira, M. (138) 240)
- Lithium battery  
 Nanotube; Carbon (Morris, R.S. (138) 277)
- Lithium cobalt oxide  
 Li-ion battery; Self-discharge (Choi, S.H. (138) 283)
- Lithium insertion  
 Battery behavior; Comparison (Minakshi, M. (138) 319)
- Lithium ion cell  
 Ionic liquid; Safety; Cycle durability; Solid electrolyte interface (Sato, T. (138) 253)
- Lithium polymer batteries  
 Nanocomposite polymer electrolyte; Poly(ethylene glycol) diacrylate; Colloidal silica; Nanosize SiO<sub>2</sub> (Qiu, W.-l. (138) 245)
- Lithium rechargeable battery  
 LiCoO<sub>2</sub> cathode active material; Sol-gel method; Dopant; Magnesium; Zirconium (Kim, H.-S. (138) 232)
- Lithium  
 Hydrogen storage; Solid-gas reaction; Magnesium; Amide; Imide (Nakamori, Y. (138) 309)
- Low temperatures  
 Li-ion; Military; LiNiO<sub>2</sub> positive (Fan, J. (138) 288)
- Magnesium  
 Hydrogen storage; Solid-gas reaction; Lithium; Amide; Imide (Nakamori, Y. (138) 309)
- Magnesium  
 Lithium rechargeable battery; LiCoO<sub>2</sub> cathode active material; Sol-gel method; Dopant; Zirconium (Kim, H.-S. (138) 232)
- Mass transfer  
 PEMFC; Fuel cell; Gas diffusion layer (Jeng, K.T. (138) 41)
- Material utilization efficiency  
 Sulfur cathode; Composite materials; Rechargeable lithium batteries; Cycle performance (Wang, J. (138) 271)
- Mechanical properties  
 Solid oxide fuel cells; Compressive metallic seals; Mica; Leakage rate; Stack testing (Bram, M. (138) 111)
- Membrane electrode assembly  
 Phosphosilicate; Polyimide (Nakamoto, N. (138) 51)
- Mesopores  
 Activated carbon; Steam activation; BET surface area; Supercapacitor (Wu, F.-C. (138) 351)
- Mica  
 Solid oxide fuel cells; Compressive metallic seals; Mechanical properties; Leakage rate; Stack testing (Bram, M. (138) 111)
- Micro-fuel cell  
 Fuel cell; PEM (Li, J. (138) 211)
- Military  
 Li-ion; LiNiO<sub>2</sub> positive; Low temperatures (Fan, J. (138) 288)
- Modeling  
 Fuel cell; Catalyst layer; Particle size; Catalyst utilization; Polarization (Farhat, Z.N. (138) 68)
- Molten carbonate fuel cell (MCFC)  
 Biomass gasification; Gas turbine; Power generation system (Morita, H. (138) 31)
- Monomer solution  
 PEFC electrode; Carbon black support; Graft polymerization; Polymer electrolyte fuel cell; Tafel plots (Mizuhata, H. (138) 25)
- Nanocomposite polymer electrolyte  
 Poly(ethylene glycol) diacrylate; Lithium polymer batteries; Colloidal silica; Nanosize SiO<sub>2</sub> (Qiu, W.-l. (138) 245)
- Nanosize SiO<sub>2</sub>  
 Nanocomposite polymer electrolyte; Poly(ethylene glycol) diacrylate; Lithium polymer batteries; Colloidal silica (Qiu, W.-l. (138) 245)
- Nanostructured electrodes  
 Solid oxide fuel cells; Combustion CVD; Functionally graded materials (Liu, Y. (138) 194)
- Nanotube  
 Lithium battery; Carbon (Morris, R.S. (138) 277)
- Ni-based alloy  
 Thermal nitridation; Stainless steel; PEMFC; Bipolar plate; Corrosion (Wang, H. (138) 86)

## NiMH

Batteries; Equalizer (Hande, A. (138) 327)

## Nitridation

Stainless steel; Ferrite; PEMFC; Bipolar plate (Wang, H. (138) 79)

## Non-aqueous solvent

Electrolyte; Double-layer capacitor; Phase diagram; Electrolytic conductivity; Electrochemical stability (Ding, M.S. (138) 340)

## Non-flammable

Electrolytes; Lithium batteries (Dixon, B.G. (138) 274)

## Off time

Fuel cell; Pulse electrodeposition; Cyclic voltammetry (Kim, H. (138) 14)

## Ohmic

SOFC; Activation; Concentration; Polarization; Performance fuel cell (Hernández-Pacheco, E. (138) 174)

## Oxygen reduction

Platinum-cobalt alloy; Polymer electrolyte fuel cells (Salgado, J.R.C. (138) 56)

## Particle size

Fuel cell; Catalyst layer; Modeling; Catalyst utilization; Polarization (Farhat, Z.N. (138) 68)

## PEFC electrode

Carbon black support; Graft polymerization; Monomer solution; Polymer electrolyte fuel cell; Tafel plots (Mizuhata, H. (138) 25)

## PEM fuel cell

Air impurities; Cyclic voltammetry (Mohtadi, R. (138) 216)

## PEM fuel cell

Fuel cell; Electrochemical model; Dynamic model (El-Sharkh, M.Y. (138) 199)

## PEM fuel cell

Serpentine channels; Laminar flow; Bend loss coefficients; Computational fluid dynamics; Design correlations (Maharudrayya, S. (138) 1)

## PEM fuel cells

Fuel cell modeling; Reformate; CFD (Zhou, T. (138) 101)

## PEM fuel cells

Water management; Electrode flooding; Sequential exhausting (Knobbe, M.W. (138) 94)

## PEM

Fuel cell; Micro-fuel cell (Li, J. (138) 211)

## PEMFC

Fuel cell; Gas diffusion layer; Mass transfer (Jeng, K.T. (138) 41)

## PEMFC

Nitridation; Stainless steel; Ferrite; Bipolar plate (Wang, H. (138) 79)

## PEMFC

Planar design; Free-breathing; Cathode structure; Liquid water saturation (Hottinen, T. (138) 205)

## PEMFC

Thermal nitridation; Ni-based alloy; Stainless steel; Bipolar plate; Corrosion (Wang, H. (138) 86)

## Performance fuel cell

SOFC; Ohmic; Activation; Concentration; Polarization (Hernández-Pacheco, E. (138) 174)

## Phase diagram

Non-aqueous solvent; Electrolyte; Double-layer capacitor; Electrolytic conductivity; Electrochemical stability (Ding, M.S. (138) 340)

## Phosphosilicate

Membrane electrode assembly; Polyimide (Nakamoto, N. (138) 51)

## Planar design

PEMFC; Free-breathing; Cathode structure; Liquid water saturation (Hottinen, T. (138) 205)

## Planar

Anode-supported; Intermediate temperature; Direct internal reforming; SOFC; Dynamic model (Aguiar, P. (138) 120)

## Platinum-cobalt alloy

Oxygen reduction; Polymer electrolyte fuel cells (Salgado, J.R.C. (138) 56)

## Polarization

Fuel cell; Catalyst layer; Modeling; Particle size; Catalyst utilization (Farhat, Z.N. (138) 68)

## Polarization

SOFC; Ohmic; Activation; Concentration; Performance fuel cell (Hernández-Pacheco, E. (138) 174)

## Poly(ethylene glycol) diacrylate

Nanocomposite polymer electrolyte; Lithium polymer batteries; Colloidal silica; Nanosize SiO<sub>2</sub> (Qiu, W.-l. (138) 245)

## Polyimide

Phosphosilicate; Membrane electrode assembly (Nakamoto, N. (138) 51)

## Polymer electrolyte fuel cell stack

Water management; Dehydration; Flooding (Eckl, R. (138) 137)

## Polymer electrolyte fuel cell

PEFC electrode; Carbon black support; Graft polymerization; Monomer solution; Tafel plots (Mizuhata, H. (138) 25)

## Polymer electrolyte fuel cells

Platinum-cobalt alloy; Oxygen reduction (Salgado, J.R.C. (138) 56)

## Power generation system

Biomass gasification; Molten carbonate fuel cell (MCFC); Gas turbine (Morita, H. (138) 31)

## Pulse electrodeposition

Fuel cell; Off time; Cyclic voltammetry (Kim, H. (138) 14)

## Reactivation peak

Lead-acid batteries; “Coup de fouet”; State-of-charge; State-of-health; Grid corrosion (de Oliveira, C.P. (138) 294)

## Rechargeable lithium batteries

Sulfur cathode; Composite materials; Cycle performance; Material utilization efficiency (Wang, J. (138) 271)

## Reformate

PEM fuel cells; Fuel cell modeling; CFD (Zhou, T. (138) 101)

## Safety

Ionic liquid; Lithium ion cell; Cycle durability; Solid electrolyte interface (Sato, T. (138) 253)

## Self-delithiation

Binder; Graphite anode; Solid electrolyte interface; Li-ion battery (Zhang, S.S. (138) 226)

## Self-discharge

Lithium cobalt oxide; Li-ion battery (Choi, S.H. (138) 283)

## Sequential exhausting

PEM fuel cells; Water management; Electrode flooding (Knobbe, M.W. (138) 94)

## Serpentine channels

PEM fuel cell; Laminar flow; Bend loss coefficients; Computational fluid dynamics; Design correlations (Maharudrayya, S. (138) 1)

## SOFC

Anode-supported; Intermediate temperature; Direct internal reforming; Planar; Dynamic model (Aguiar, P. (138) 120)

## SOFC

Ohmic; Activation; Concentration; Polarization; Performance fuel cell (Hernández-Pacheco, E. (138) 174)

## Sol-gel method

Lithium rechargeable battery; LiCoO<sub>2</sub> cathode active material; Dopant; Magnesium; Zirconium (Kim, H.-S. (138) 232)

## Solid electrolyte interface

Binder; Graphite anode; Self-delithiation; Li-ion battery (Zhang, S.S. (138) 226)

## Solid electrolyte interface

Ionic liquid; Lithium ion cell; Safety; Cycle durability (Sato, T. (138) 253)

- Solid oxide fuel cells  
 Combustion CVD; Nanostructured electrodes; Functionally graded materials (Liu, Y. (138) 194)
- Solid oxide fuel cells  
 Compressive metallic seals; Mica; Mechanical properties; Leakage rate; Stack testing (Bram, M. (138) 111)
- Solid oxide fuel cells  
 Interconnects; Coatings; Electron microscopy; X-ray diffraction (Qu, W. (138) 162)
- Solid–gas reaction  
 Hydrogen storage; Magnesium; Lithium; Amide; Imide (Nakamori, Y. (138) 309)
- Stack testing  
 Solid oxide fuel cells; Compressive metallic seals; Mica; Mechanical properties; Leakage rate (Bram, M. (138) 111)
- Stainless steel  
 Nitridation; Ferrite; PEMFC; Bipolar plate (Wang, H. (138) 79)
- Stainless steel  
 Thermal nitridation; Ni-based alloy; PEMFC; Bipolar plate; Corrosion (Wang, H. (138) 86)
- State-of-charge  
 Lead-acid batteries; “Coup de fouet”; Reactivation peak; State-of-health; Grid corrosion (de Oliveira, C.P. (138) 294)
- State-of-health  
 Lead-acid batteries; “Coup de fouet”; Reactivation peak; State-of-charge; Grid corrosion (de Oliveira, C.P. (138) 294)
- Steam activation  
 Activated carbon; BET surface area; Mesopores; Supercapacitor (Wu, F.-C. (138) 351)
- Sulfur cathode  
 Composite materials; Rechargeable lithium batteries; Cycle performance; Material utilization efficiency (Wang, J. (138) 271)
- Supercapacitor  
 Battery; Combination; High-pulse power (Choi, S.H. (138) 360)
- Surface modification  
 LiCoVO<sub>4</sub>; Al<sub>2</sub>O<sub>3</sub>; Li-ion batteries. (Landschoot, N.V. (138) 262)
- Supercapacitor  
 Activated carbon; Steam activation; BET surface area; Mesopores (Wu, F.-C. (138) 351)
- Tafel plots  
 PEFC electrode; Carbon black support; Graft polymerization; Monomer solution; Polymer electrolyte fuel cell (Mizuhata, H. (138) 25)
- TEM analysis  
 Electrolytic capacitor; Aluminum oxide; Anodization; Hydration (Chang, J.-K. (138) 301)
- Thermal batteries  
 Li-based molten salt batteries; Electrochemical impedance spectroscopy (Singh, P. (138) 323)
- Thermal nitridation  
 Ni-based alloy; Stainless steel; PEMFC; Bipolar plate; Corrosion (Wang, H. (138) 86)
- Voxel-based sculpturing  
 Fuel-cells; Geometric design; Graphical user interface (Smirnov, A.V. (138) 187)
- Warpage  
 Glassy seals; Leakage; Electrochemical; Hydrogen (Li, W. (138) 145)
- Water management  
 PEM fuel cells; Electrode flooding; Sequential exhausting (Knobbe, M.W. (138) 94)
- Water management  
 Polymer electrolyte fuel cell stack; Dehydration; Flooding (Eckl, R. (138) 137)
- Water recovery  
 Hydrogen economy; Hydrogen production; Fuel processing; Fuel cell; Auto thermal reforming (Biesheuvel, P.M. (138) 156)
- X-ray diffraction  
 Solid oxide fuel cells; Interconnects; Coatings; Electron microscopy (Qu, W. (138) 162)
- Zinc  
 Aluminum electrode; Aluminum–air battery (Tang, Y. (138) 313)
- Zirconium  
 Lithium rechargeable battery; LiCoO<sub>2</sub> cathode active material; Sol-gel method; Dopant; Magnesium (Kim, H.-S. (138) 232)